SONY

SNC-XM631

Network Mini Dome Full HD Camera – X Series

Compact Mini Dome1080p/30 fps Camera
Powered by IPELA ENGINE EX™

IPELA

- Maximum resolution of 1920 x 1080 pixels with the Exmor™ CMOS sensor
- Dynamic range equivalent to 90 dB achieved with View-DR technology
- Minimum illumination of 0.3 lx in Color mode and 0.3 lx in B/W mode at 50 IRE
- IK10-rated vandal-resistant feature
- Three-hinge structure for easy and flexible camera angle adjustment
- Horizontal viewing angel of 113°

KEY FEATURES

- IPELA ENGINE EX signal processing system developed based on Sony's unique signal processing and intelligent video analytics technologies to provide unique features such as View-DR, XDNR, and DEPA™ Advanced technologies
- View-DR – Sony's innovative wide dynamic range technology – to capture objects clearly and adaptively even under very harsh, severe backlight or highlight conditions

OFF   ON

Actual images

- Visibility Enhancer (VE) to optimize the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene within the given dynamic range
- IK10-rated vandal-resistant feature to protect the camera from destructive behaviors
- Three-hinge structure to turn the lens unit in panning, tilting, and rotating directions for easy and flexible camera angle adjustment
- Picture mode selectable from a range of camera scenes in the setting menu to optimize picture quality in various applications
- VBR (variable bitrate) capable of maximum bitrate setting or CBR (constant bitrate) compression mode selectable to correspond with various network conditions
- Edge Storage function to record video and audio data with an SD/SDHC card attached to the camera

- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without introducing motion blur under low illumination

OFF

ON   *Actual images*

- Image Stabilizer to help minimize the effect of camera shake or vibration to achieve less blurry images
- Electronic D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules
- Smartphone viewer to display an image of the camera on the smartphone screen and control the camera's pan, tilt, and zoom functions by simple touch-panel manipulation
- ONVIF (Open Network Video Interface Forum) Profile S conformance firmware that ensures greater interoperability and more flexibility in building multi-vendor systems
- Easy initial network settings by supplied SNC Easy IP Setup Guide application
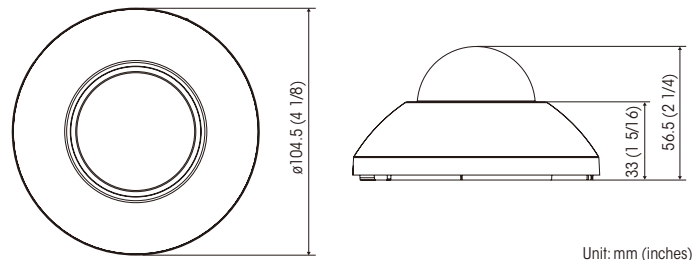- Powered by IEEE 802.3af (PoE system) via an RJ-45 connector for easy installation

IPELA ENGINE EX   **View-DR**   **DEPA Advanced**   **Onvif S**

SPECIFICATIONS

SNC-XM631

Camera

Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor
Number of Effective Pixels	Approx. 2.14 Megapixels
Minimum Illumination (50 IRE)	Color: 0.3 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
	B/W: 0.3 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.18 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
	B/W: 0.18 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Dynamic Range	Equivalent to 90 dB with View-DR technology
Gain	Auto
Shutter Speed	1/1 s to 1/10,000 s
Exposure Control	Exposure compensation, AGC, Shutter speed
White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
lens	Fixed lens
Zoom Ratio	Digital zoom 4x
Horizontal Viewing Angle	113°
Vertical Viewing Angle	61°
Viewing Tilt Angle	151°
Focal Length	f = 2.8 mm
F-Number	F2.0
Minimum Object Distance	TBD
Pan/Tilt/Rotation Angle (manual)	Pan: ±175° (tentative)
	Tilt: +30° to +90° (tentative)
	Rotation: ±175° (tentative)

Camera Features

Day/Night	Electronic D/N
e-Flip	Yes
Wide-D	View-DR
Tone Correction	Visibility Enhancer (VE)
Noise Reduction	XDNR
Image Stabilizer	Yes
Picture Mode	Yes
Privacy Masking (number)	20
Privacy Masking (shape)	Quadrangle formed by any four corner points
Privacy Masking (color/effect)	Opaque (14 colors: Black, White, Red, Green, Blue, Cyan, Yellow, Magenta, Gray (6 scales)), Mosaic
Edge Storage	Yes
Compatibility with Cloud Service	Yes
Vandal Resistant	IK10
Ingress Protection	No
Superimpose Number	3 independent positions for characters (Codec, Date & Time, Event, Text (max. 64 characters)), 1 independent position for logo marks
Superimpose Language	English
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai
Smartphone viewer	Yes

Video

Resolution	1920 x 1080, 1280 x 720, 1024 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 184 (H.264, JPEG)
Compression Format	H.264 (High/Main/Baseline Profile), JPEG
Maximum Frame Rate	H.264: 30 fps (1920 x 1080)
	JPEG: 30 fps (1920 x 1080)
Bitrate Compression Mode	CBR/VBR (selectable)
Range of Bit Rate Setting	64 Kbps to 32 Mbps
Solid PTZ	Yes
Adaptive Rate Control	H.264
Bandwidth Control	JPEG
Multi streaming Capability	Triple streaming
Number of Clients	20

Intelligent Video/Audio Analytics

Analytics Architecture	DEPA Advanced
Intelligent Motion Detection	Yes
Face Detection	Yes
Tamper Alarm	Yes
Scene Analytics	Passing, Intrusion, Left Object Detection, Removed Object Detection

System Requirements

Operating System	Windows XP (32 bit) Professional Edition
	Windows Vista (32 bit) Ultimate, Business Edition
	Windows 7 (32/64 bit) Ultimate, Professional Edition
	Windows 8 Pro (32/64 bit), Windows 8.1 Pro (32/64 bit)
Processor	Intel Corei7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0
	Firefox Ver. 19.02 (Plug-in free viewer only)
	Safari Ver. 5.1 (Plug-in free viewer only)
	Google Chrome Ver. 25.0 (Plug-in free viewer only)

Network

Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, SMTP, IPv6, HTTPS, FTP (client only), SNMP (v1, v2c, v3), SSL
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE802.1X

Interface

Microphone Input	No
Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	x1, make contact, break contact
Alarm Output	x1, +/- 50 V, 0.4 A (solid state relay outputs electrically isolated from the camera)
Card Slots	SD Card x1
Confirmed SD Card Type	SDHC (no support for SDXC)

General

Power Requirements	IEEE 802.3af compliant (PoE system)
Power Consumption	TBD
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Cold Start Temperature	0°C (32°F)
Storage Temperature	-30°C to +60°C (-22°F to +140°F)
Operating Humidity	20% to 80%
Storage Humidity	20% to 80%
Built-in Heater	No
Dimensions (W x H x D)	ø104.5 mm x 56.5 mm (ø4 1/8 inches x 2 1/4 inches)
Mass	TBD
External Material	Top cover/Dome cover : PC (Polycarbonate) Lower case:AL Die-cast
External Color	Top cover: Munsell 4.4G 8.4/0.2
Fire Retardant	UL2044
Safety Regulations	UL2044, UL50
	UL2044, IEC60950-1 (CB)
	IEC60529, IEC62262, ISO16750
	EN55022
	EN55024, EN50130-4, FCC/IC (Class A)
	AU/NZ EMC, KN22/KN24 (Class A)
	UN ECE R10 Rev.4
	VCCI (Class A)
	EAC (GOST-R)
Supplied Accessories	CD-ROM (supplied programs) (1)
	Installation Manual (1)
	Template (1)
	Safety regulations (1)
	Warranty booklet (1)
	I/O cable (1)

*SSM (Source Specific Multicast) is supported.

DIMENSIONS

Unit: mm (inches)

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